

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing mast arm Traffic Control Signal with street lighting and interconnect at the intersection of MD 108 (Waterloo Rd) and Snowden River Pkwy in Howard County. Opticom pre-emption shall be installed for both approaches of Snowden River Pkwy at this intersection. MD 108 (Waterloo Rd) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA eight-phase, fully-actuated mode, with the MD 108 (Waterloo Rd) approaches running concurrently. Exclusive left turn phases shall continue to be provided for both approaches of MD 108 (Waterloo Rd). Exclusive left turn phases shall continue to be provided for both approaches of Snowden River Pkwy. The Snowden River Pkwy approaches shall also continue to run concurrently. A new opticom pre-emption phase shall be installed for the northbound Snowden River Pkwy approach. A new opticom pre-emption phase shall be installed for the southbound Snowden River Pkwy approach.
- The existing full-traffic-actuated, eight-phase controller with video interface and all necessary equipment housed in a NEMA size 6 base-mounted cabinet shall be utilized at this intersection. Discriminator module shall be installed into the cabinet.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

The contact persons for District #7 and SHA are as follows:

Mr. John Conoannon
Assistant District Engineer - Traffic
Phone: (301) 624-8141

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ray Johnson
Assistant District Engineer - Maintenance
Phone: (301) 624-8105

Mr. Ed Rodenhizer
Manager, Signal Operations Section
410-787-7652

Ms Andrea Abend
Assistant District Engineer - Utility
Phone: (301) 624-8115

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

THERE IS NO EQUIPMENT TO BE SUPPLIED BY THE SHA.

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
8032	Furnish and install 4 conductor opticom cable.	1200 L.F.
8047	Discriminator module, 4 channel No. 764	1 EA
8048	Opticom emitter system 700 series.	1 EA
8049	Opticom #721 detector eye.	3 EA

C. EQUIPMENT TO BE REMOVED

There is no equipment to be removed for this project.

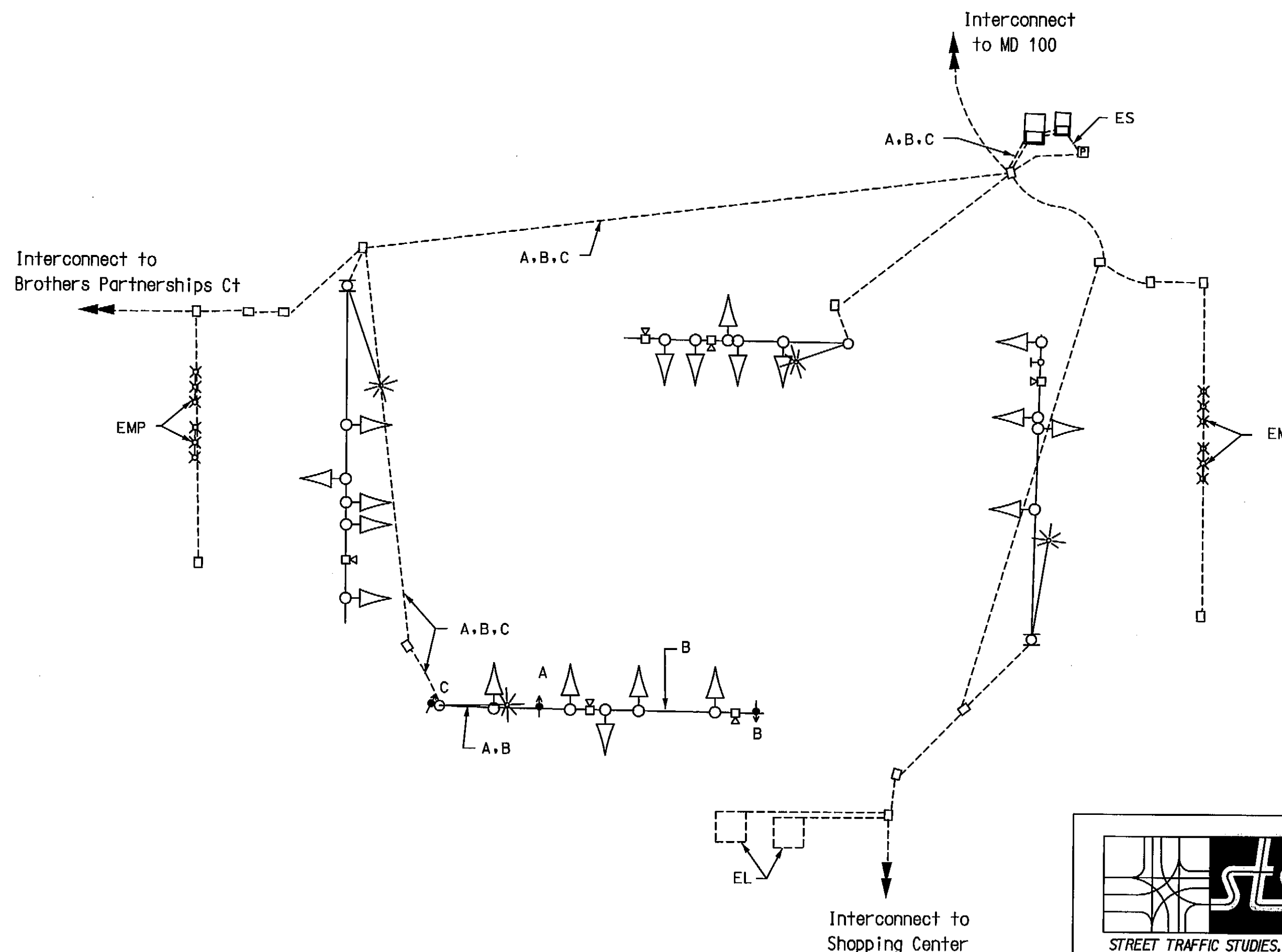
Phase Chart

	1	2,3	4,5	6	7	8,9	10	11,12	13,14	15	16,17	18,19
Phase 1 & 5	←G→	←G→	R	←G→	←G→	R	←R→	←R→	R	←R→	←R→	R
1 & 5 Change to Phase 1 & 6 or Phase 2 & 6	←R→	←R→	R	←G→	←G→	G	←R→	←R→	R	←R→	←R→	R
Phase 1 & 6	←R→	←R→	R	←Y→	←Y→	G	←R→	←R→	R	←R→	←R→	R
1 Change	←G→	←G→	G	←R→	←R→	R	←R→	←R→	R	←R→	←R→	R
Phase 2 & 5	←G→	←G→	G	←R→	←R→	R	←R→	←R→	R	←R→	←R→	R
5 Change	←Y→	←Y→	G	←R→	←R→	R	←R→	←R→	R	←R→	←R→	R
Phase 2 & 6	←R→	←R→	G	←R→	←R→	G	←R→	←R→	R	←R→	←R→	R
2 & 6 Change	←R→	←R→	Y	←R→	←R→	Y	←R→	←R→	R	←R→	←R→	R
Phase 3 & 8	←R→	←R→	R	←R→	←R→	R	←G→	←G→	G	←R→	←R→	R
3 Change	←R→	←R→	R	←R→	←R→	R	←Y→	←Y→	G	←R→	←R→	R
Phase 4 & 8	←R→	←R→	R	←R→	←R→	R	←R→	←R→	G	←R→	←R→	G
8 Change	←R→	←R→	R	←R→	←R→	R	←R→	←R→	Y	←R→	←R→	G
Phase 4 & 7	←R→	←R→	R	←R→	←R→	R	←R→	←R→	R	←G→	←G→	G
7 Change	←R→	←R→	R	←R→	←R→	R	←R→	←R→	R	←Y→	←Y→	Y
Pre Empt 1	←R→	←R→	R	←R→	←R→	R	←R→	←R→	R	←G→	←G→	G
Pre Empt 1 Change	←R→	←R→	R	←R→	←R→	R	←R→	←R→	R	←Y→	←Y→	Y
Pre Empt 2	←R→	←R→	R	←R→	←R→	R	←G→	←G→	G	←R→	←R→	R
Pre Empt 2 Change	←R→	←R→	R	←R→	←R→	R	←Y→	←Y→	G	←R→	←R→	R
Flashing Operation	FL/←R→	FL/←R→	FL/Y	FL/←R→	FL/←R→	FL/Y	FL/←R→	FL/←R→	FL/R	FL/←R→	FL/←R→	FL/R

NOTE:

Phase 3 & 7 will operate in a lead/lag operation.

TOD NO: XX650-07
SHA NO: HQ221B54
MD 108 @ Snowden River Pkwy



WIRING KEY

A } 4-CONDUCTOR OPTICOM
C } CABLE

EMP- MICROLOOP LEAD-IN CABLE

EL- LOOP WIRE (NO. 14 A.W.G.)
EXISTING

ES- EXISTING UNDERGROUND SERVICE
TO BE MAINTAINED BY BGE

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
**MD 108 (WATERLOO ROAD)
AND SNOWDEN RIVER PKWY
COLUMBIA, MARYLAND**

GENERAL INFORMATION SHEET

SCALE NONE DATE 9/23/11 CONTRACT NO. XX6505185

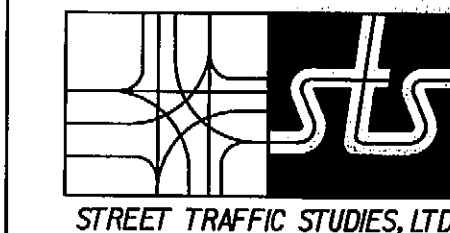
DESIGNED BY R.R.Z. COUNTY HOWARD

DRAWN BY R.C. LOGMILE 13010813.30

CHECKED BY TMS NO. K814

F.A.P. NO. TOD NO.

TS NO. 3581G DRAWING NO. 2 OF 2 SHEET NO. OF



STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy., NW
Glen Burnie, MD 21061
Ph (410) 590-5500 Fax (410) 590-6637

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FILE: \$FILE\$